

Service Manual

ORDER NO.
RRV3167

DVD RECORDER

DVR-433H-S DVR-433H-K

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Region No.	Serial No. Please confirm 3rd & 4th alphabetical letters.
DVR-433H-S	WYXV	AC220-240V	2	&&DL#####\$\$
DVR-433H-K	WYXV	AC220-240V	2	&&DL#####\$\$
DVR-433H-S	WVXV	AC220-240V	2	&&DL#####\$\$
DVR-433H-S	WYXV/RE	AC220-240V	5	&&DL#####\$\$
DVR-433H-K	WYXV/RE	AC220-240V	5	&&DL#####\$\$

● This service manual should be used together with the following manual(s):

Model	Order No.	Remarks
DVR-530H-S/WYXV	RRV3149	

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• Screws adjacent to  mark on product are used for disassembly.

• Reference Nos. indicate the pages and Nos. in the service manual for the base model.

• For the applying amount of lubricants or glue, follow the instructions in this manual.
(In the case of no amount instructions, apply as you think it appropriate.)

• When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 RD1/4PU 5 6 1 J

47k Ω → 47 × 10³ → 473 RD1/4PU 4 7 3 J

0.5 Ω → R50 RN2H R 5 0 K

1 Ω → 1R0 RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 × 10³ → 5621 RN1/4PC 5 6 2 1 F

■ CONTRAST TABLE

DVR-433H-S/WYXV, /WVXV, /WYXV/RE, DVR-433H-K/WYXV, /WYXV/RE and DVR-530H-S/WYXV are constructed the same except for the following:

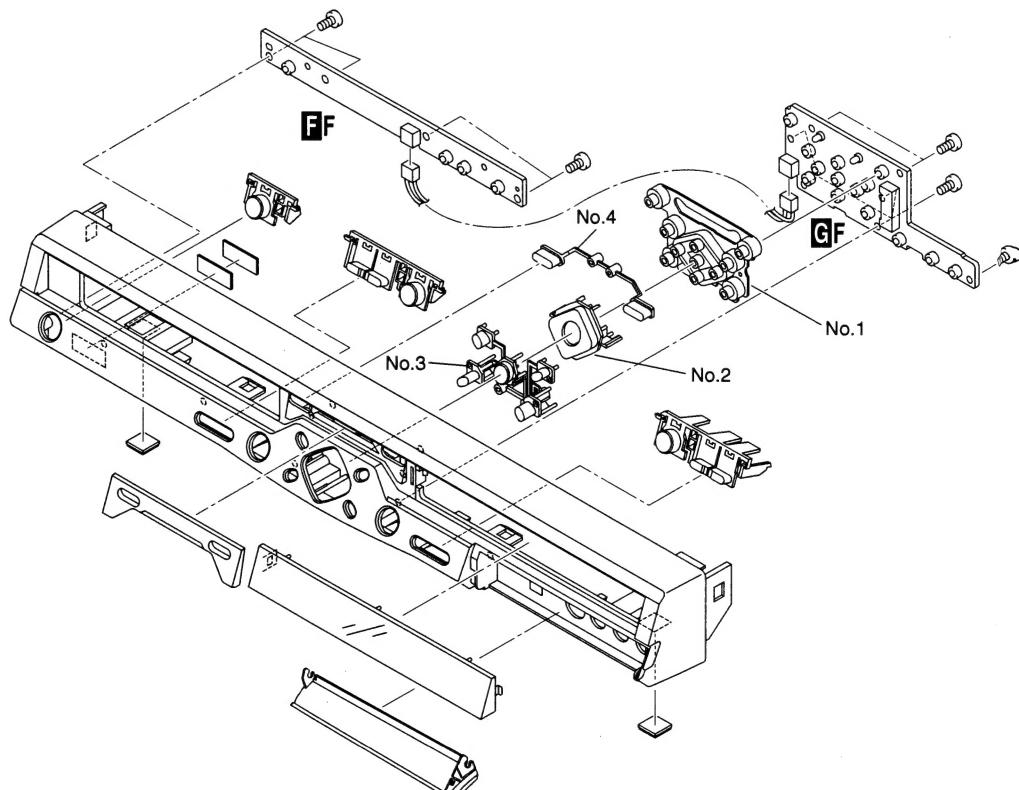
Ref. No.	Mark	Symbol and Description	Part No.						Remarks
			DVR-530H-S /WYXV	DVR-433H-S /WYXV	DVR-433H-K /WYXV	DVR-433H-S /WVXV	DVR-433H-S /WYXV/RE	DVR-433H-K /WYXV/RE	
P11-2 P11-6	NSP	PCB ASSEMBLIES 1..JAFL ASSY (for SERVICE) 2..JAFL ASSY 3..JACB ASSY 1..MAIN ASSY (for SERVICE)	VXX3005 VWM2315 VWV2115 VXX2997	VXX3004 VWM2314 VWV2114 VXX2996	VXX3004 VWM2314 VWV2114 VXX2996	VXX3004 VWM2314 VWV2114 VXX2996	VXX3004 VWM2314 VWV2114 VXX2996	VXX3004 VWM2314 VWV2114 VXX2996	
		1..KEYB ASSY (for SERVICE) 2..KEYB ASSY 3..PSWB ASSY 3..RSWB ASSY	VXX3032 VWM2332 VWG2526 VWG2530	VXX3030 VWM2330 VWG2524 VWG2528	VXX3030 VWM2330 VWG2524 VWG2528	VXX3030 VWM2330 VWG2524 VWG2528	VXX3030 VWM2330 VWG2524 VWG2528	VXX3030 VWM2330 VWG2524 VWG2528	
P13-1 P13-2	NSP	PACKING SECTION							
		AC Power Cord Remote Control Unit Battery Cover IR Blaster Operating Instructions (English)	ADG7090 VXX2969 AZN7933 VDX1010 Not used	ADG7090 VXX3048 VNK4998 Not used Not used	ADG7090 VXX3048 VNK4998 Not used Not used	ADG7103 VXX3047 VNK4998 Not used Not used	ADG7090 VXX3048 VNK4998 Not used Not used	ADG7090 VXX3048 VNK4998 Not used Not used	
P9-1 P9-4 P9-5 P9-7 P9-11		Operating Instructions (French) Operating Instructions (German) Operating Instructions (Italian) Operating Instructions (Spanish) Operating Instructions (Dutch)	VRC1251 VRC1252 VRC1253 VRC1255 VRC1254	VRC1263 VRC1262 VRC1261 VRC1264 VRC1265	VRC1263 VRC1262 VRC1261 VRC1264 VRC1265	Not used Not used Not used Not used Not used	Not used Not used Not used Not used Not used	Not used Not used Not used Not used Not used	
		Dual Layer IM (English) Dual Layer IM (French) Dual Layer IM (German) Dual Layer IM (Italian) Dual Layer IM (Spanish)	Not used VRC1280 VRC1281 VRC1282 VRC1283	Not used VRC1280 VRC1281 VRC1282 VRC1283	Not used VRC1280 VRC1281 VRC1282 VRC1283	Not used Not used Not used Not used	Not used Not used Not used Not used	Not used Not used Not used Not used	
P9-17 P9-18 P9-19 P9-20 P9-21		Dual Layer IM (Dutch) Operating Instructions (Russian)	VRC1284 Not used Not used	VRC1284 Not used Not used	VRC1284 Not used Not used	Not used Not used Not used	Not used Not used Not used	Not used Not used Not used	
		Dual Layer IM (Russian) User Card Polyethylene Bag (A4x2)	VRY1158 VHL1091	VRY1158 VHL1091	VRY1158 VHL1091	Not used Not used	Not used Not used	Not used Not used	VRC1278 VRC1285 VRC1285
P9-22			VRC1284	VRC1284	VRC1284	Not used Not used	Not used Not used	Not used Not used	VRC1278 VRC1285 VRC1285
P9-24 P9-25	NSP	P9-30	Packing Case	VHG2600	VHG2602	VHG2631	VHG2632	VHG2648	VHG2649
		EXTERIOR SECTION							
P11- 9 P11- 9 P11-28 P11-29 P11-38		HDD160G WD1600BBGUCS HDD80G WD800BBJKC S Bonnet Case S Rear Panel Pioneer Name Plate	VXF1068 Not used VXX3039 VNA2772 VAM1148	Not used VXF1066 VXX3039 VNA2795 VAM1148	Not used VXF1066 VXX3042 VNA2799 VAM1153	Not used VXF1066 VXX3039 VNA2795 VAM1148	Not used VXF1066 VXX3039 VNA2818 VAM1148	Not used VXF1066 VXX3042 VNA2818 VAM1148	

Ref. No.	Mark	Symbol and Description	Part No.						Remarks
			DVR-530H-S /WYXV	DVR-433H-S /WYXV	DVR-433H-K /WYXV	DVR-433H-S /WVXV	DVR-433H-S /WYXV/RE	DVR-433H-K /WYXV/RE	
P11-40		Tray Panel EB	VNK5715	Not used	Not used	Not used	Not used	Not used	A
P11-40		Tray Panel A	VNK5703	VNK5703	VNK5703	VNK5703	VNK5703	VNK5703	
P11-41		Bonnet Label	VRW2172	VRW2173	VRW2185	VRW2176	VRW2173	VRW2185	
P11-46		Screw (FE)	VBA1104	VBA1104	Not used	VBA1104	VBA1104	Not used	
P11-46		Screw B (FE)	Not used	Not used	VBA1105	Not used	Not used	VBA1105	
P11-53		Screw	BSZ30P060FTC	BSZ30P060FTC	BSZ30P060FBN	BSZ30P060FTC	BSZ30P060FTC	BSZ30P060FBN	
FRONT PANEL SECTION									
P13- 3		Housing Ass'y (3P)	VKP2359	VKP2360	VKP2360	VKP2360	VKP2360	VKP2360	B
P13- 5		FL Lens E	VNK5706	Not used	Not used	Not used	Not used	Not used	
P13- 5		FL Lens A	Not used	VNK5698	VNK5698	VNK5698	VNK5698	VNK5698	
P13- 6		Main Key E1	VNK5707	Not used	Not used	Not used	Not used	Not used	
P13- 6		Main Key A	Not used	VNK5701	VNK5822	VNK5701	VNK5701	VNK5822	
P13- 7		Center Lens E	VNK5713	Not used	Not used	Not used	Not used	Not used	
P13- 7		Center Lens AC	Not used	VNK5699	VNK5699	VNK5699	VNK5699	VNK5699	
P13- 8		Front Panel E	VNK5763	Not used	Not used	Not used	Not used	Not used	
P13- 8		Front Panel A	Not used	VNK5826	VNK5820	VNK5826	VNK5826	VNK5820	
P13- 9		Door E	VNK5708	Not used	Not used	Not used	Not used	Not used	
P13- 9		Door A	Not used	VNK5827	VNK5821	VNK5828	VNK5827	VNK5821	
P13-10		Center Panel EB2	VNK5714	Not used	Not used	Not used	Not used	Not used	
		Rubber Hindge	Not used	VEB1371	VEB1371	VEB1371	VEB1371	VEB1371	No. 1
		Cursol Key	Not used	VNK5695	VNK5823	VNK5695	VNK5695	VNK5823	No. 2
		Enter Key	Not used	VNK5696	VNK5824	VNK5696	VNK5696	VNK5824	No. 3
		Eject Key A	Not used	VNK5697	VNK5825	VNK5697	VNK5697	VNK5825	No. 4

Notes : • For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES", "2. SCHEMATIC DIAGRAM" and "3. PCB CONNECTIONDIAGRAM".

• The numbers in the remarks column correspond to the numbers on "FRONT PANEL SECTION".

● FRONT PANEL SECTION



● CONTRAST OF PCB ASSEMBLIES

B JACB ASSY

VWV2114 and VWV2115 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		VWV2115	VWV2114	
B	Q107	2SA1576A	Not used	
	Q112	2SC4081	Not used	
	Q415, Q416	Not used	2SA1576A	
	Q417	Not used	2SC4081	
	L103	VT1081	Not used	
	C124	CEAT101M10	Not used	
	C163	CKSRYF104Z25	Not used	
	C164 - C166	CCSRCH101J50	Not used	
	C475, C479	Not used	CKSRYF104Z25	
	C476, C477, C480, C481	Not used	CKSRYB105K6R3	
C	C478, C482	Not used	CCSRCH101J50	
	R107	RS1/16SOR0J	Not used	
	R109	RS1/16S151J	Not used	
	R110, R184	RS1/16S102J	Not used	
	R185 - R187	RS1/16S472J	Not used	
	R233	RS1/16S104J	Not used	
	R440, R451, R455	Not used	RS1/16S0R0J	
	R449, R452, R453, R456	Not used	RS1/16S104J	
	R450, R454	Not used	RS1/16S473J	
	R457	Not used	RS1/16S103J	
D	R458, R459	Not used	RS1/16S222J	
	R460, R461	Not used	RS1/16S472J	
	JA101 (MINI JACK)	AKN1073	Not used	

H MAIN ASSY

VXX2996 and VXX2997 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		VXX2997	VXX2996	
E	IC3401	PDF015A	Not used	
	C3401	CKSSYF104Z16	Not used	
	C3404	CKSQQYB106K6R3	Not used	
	R3021, R3401, R3404 - R3406	RS1/16SS0R0J	Not used	
	R3025	Not used	RS1/16SS0R0J	
	R3402	RS1/10S0R0J	Not used	
	R3403	RS1/16SS105J	Not used	
	R3407	RS1/16SS473J	Not used	
	X3401 (16MHz)	CSS1616	Not used	

■ **PCB PARTS LIST**

Mark	No.	Description	Part No.
------	-----	-------------	----------

F F PSWB ASSY

SWITCHES AND RELAYS

S1212, S1213, S1405, S1406 VSG1024

RESISTORS

Other Resistors RS1/16S###J

OTHERS

CN1101 CONNECTOR POST S3B-PH-K

A

G F RSWB ASSY

SEMICONDUCTORS

Q1202, Q1203	DTC124EUA
D1207	SLR-343BBT
D1203	SLR-343DC

SWITCHES AND RELAYS

S1201-S1206, S1208-S1211	VSG1024
S1401-S1404	VSG1024

B

CAPACITORS

C1201, C1202, C1204-C1206	CKSRYF104Z25
C1403, C1404	CKSRYF104Z25

C

RESISTORS

Other Resistors	RS1/16S###J
-----------------	-------------

OTHERS

CN1202 CONNECTOR POST	S3B-PH-K
CN1201 CONNECTOR	VKP2355

D

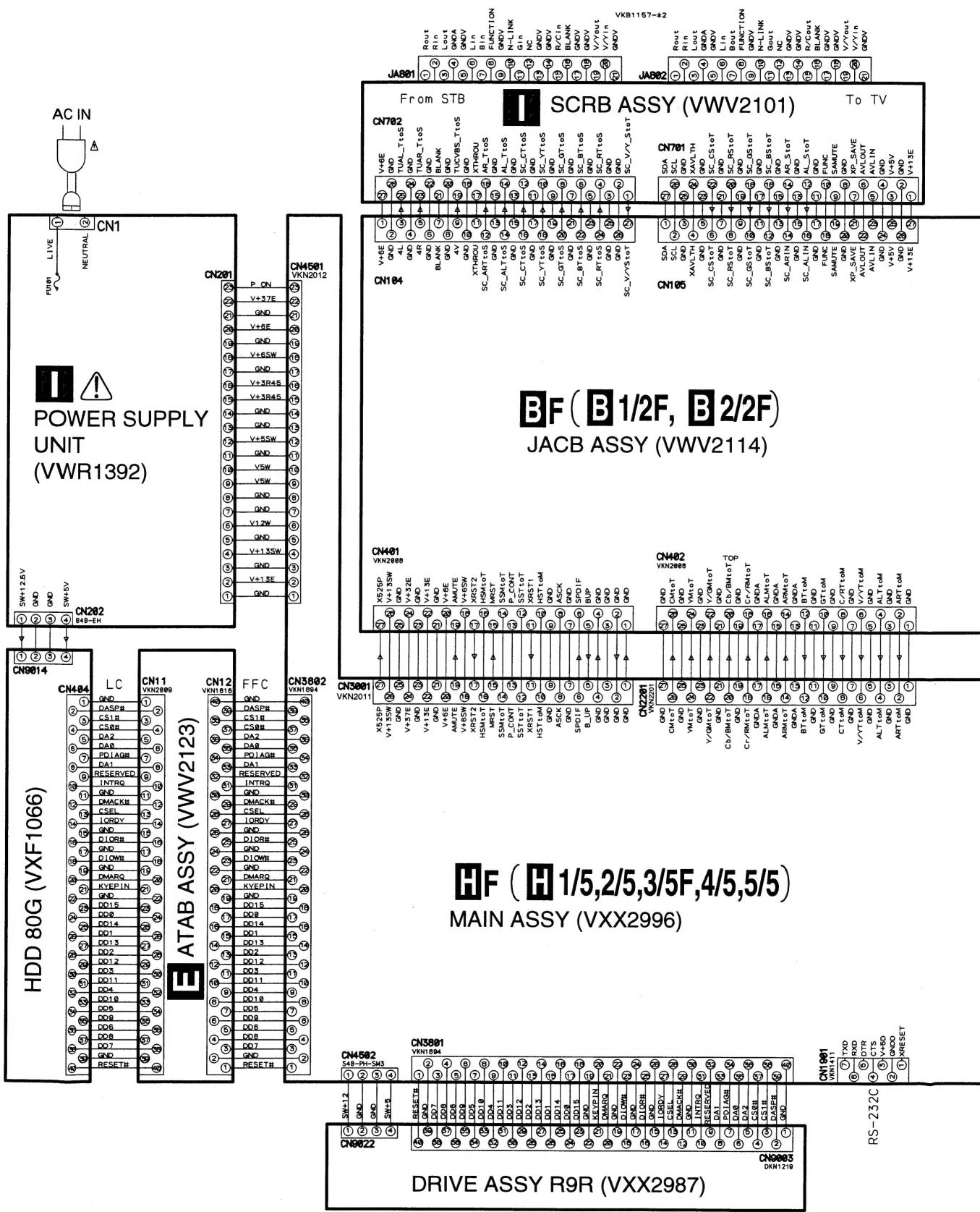
E

F

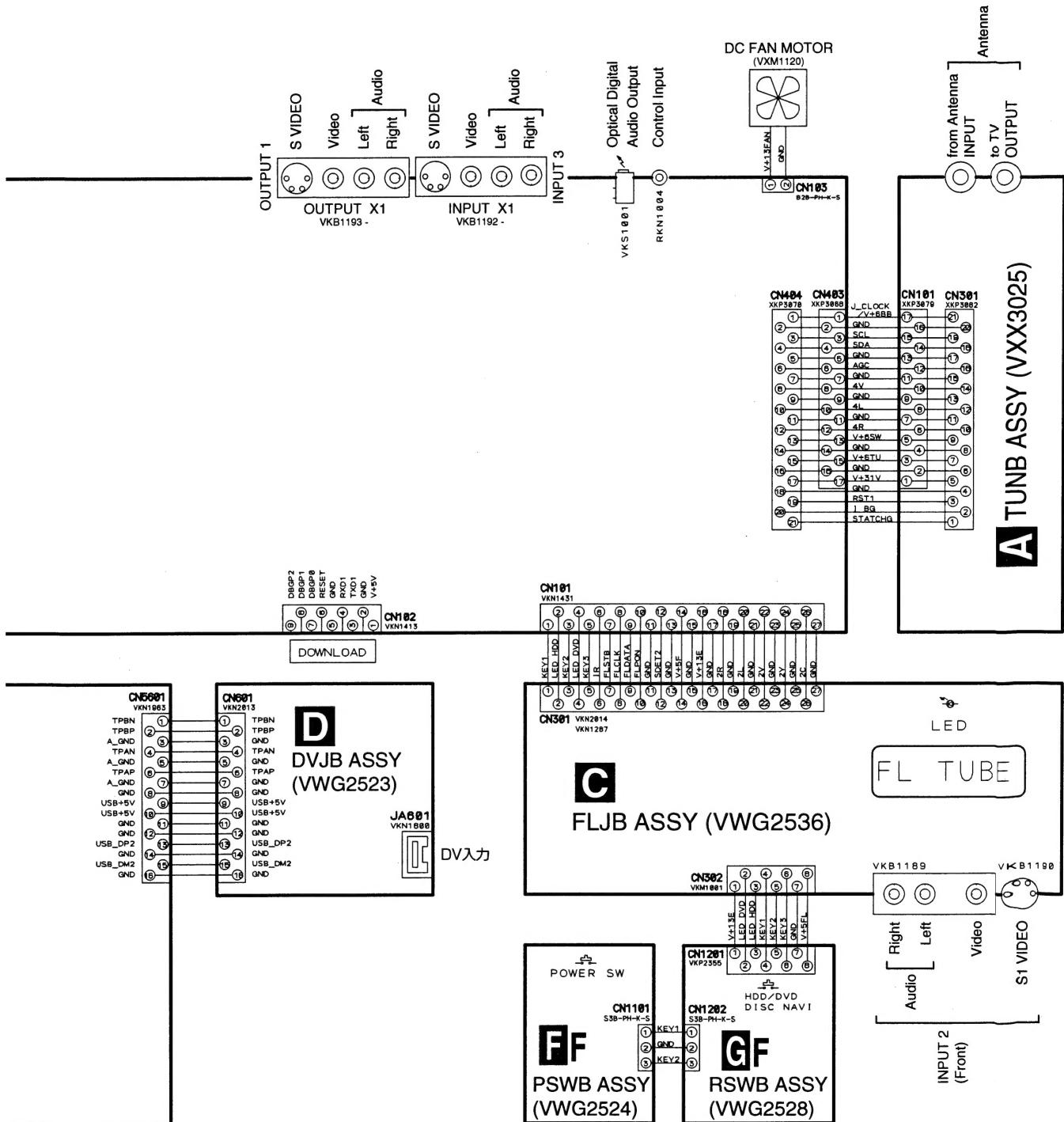
2. SCHEMATIC DIAGRAM

2.1 OVERALL WIRING DIAGRAM

A

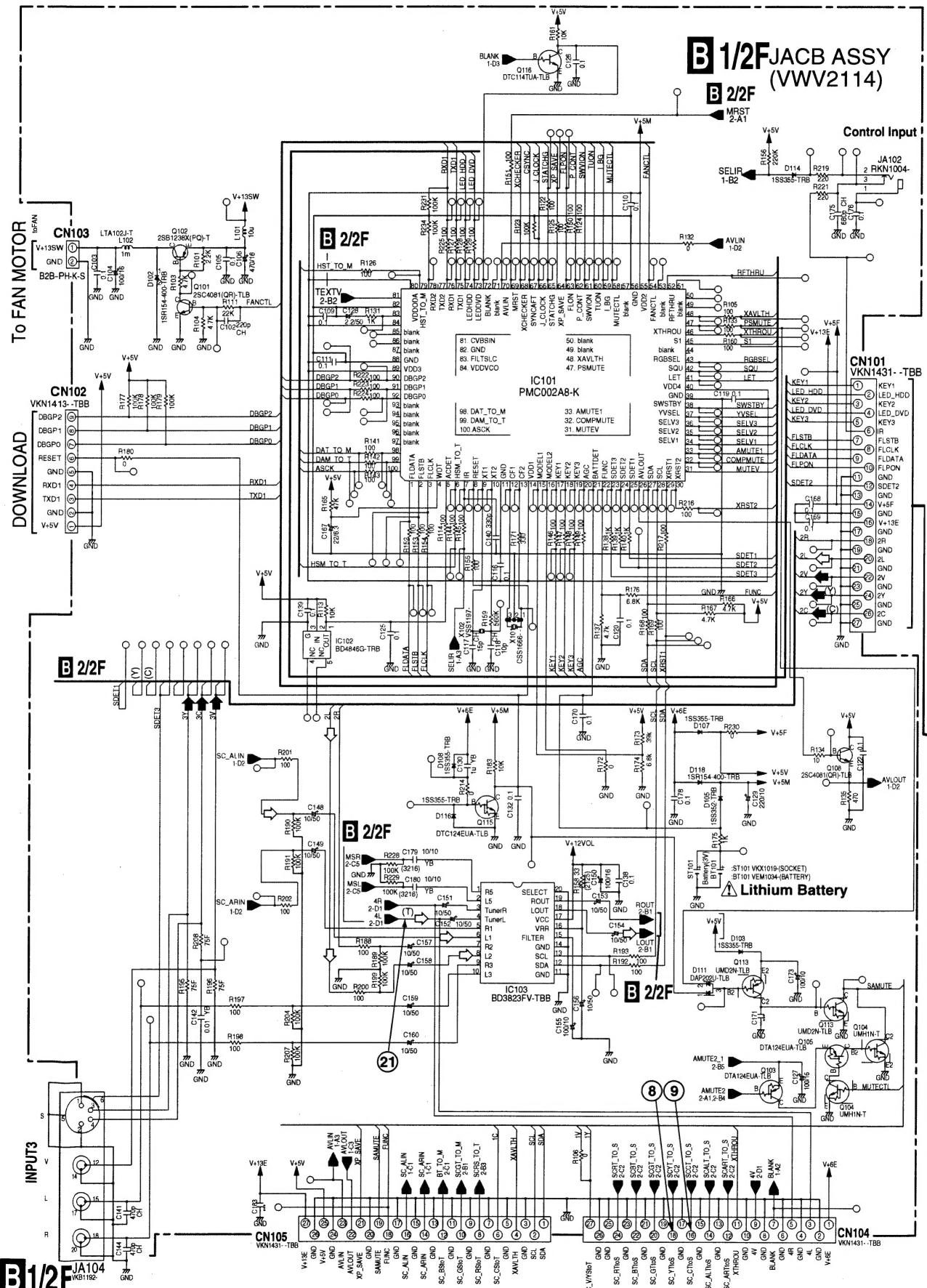


6



- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
-  : The power supply is shown with the marked box.

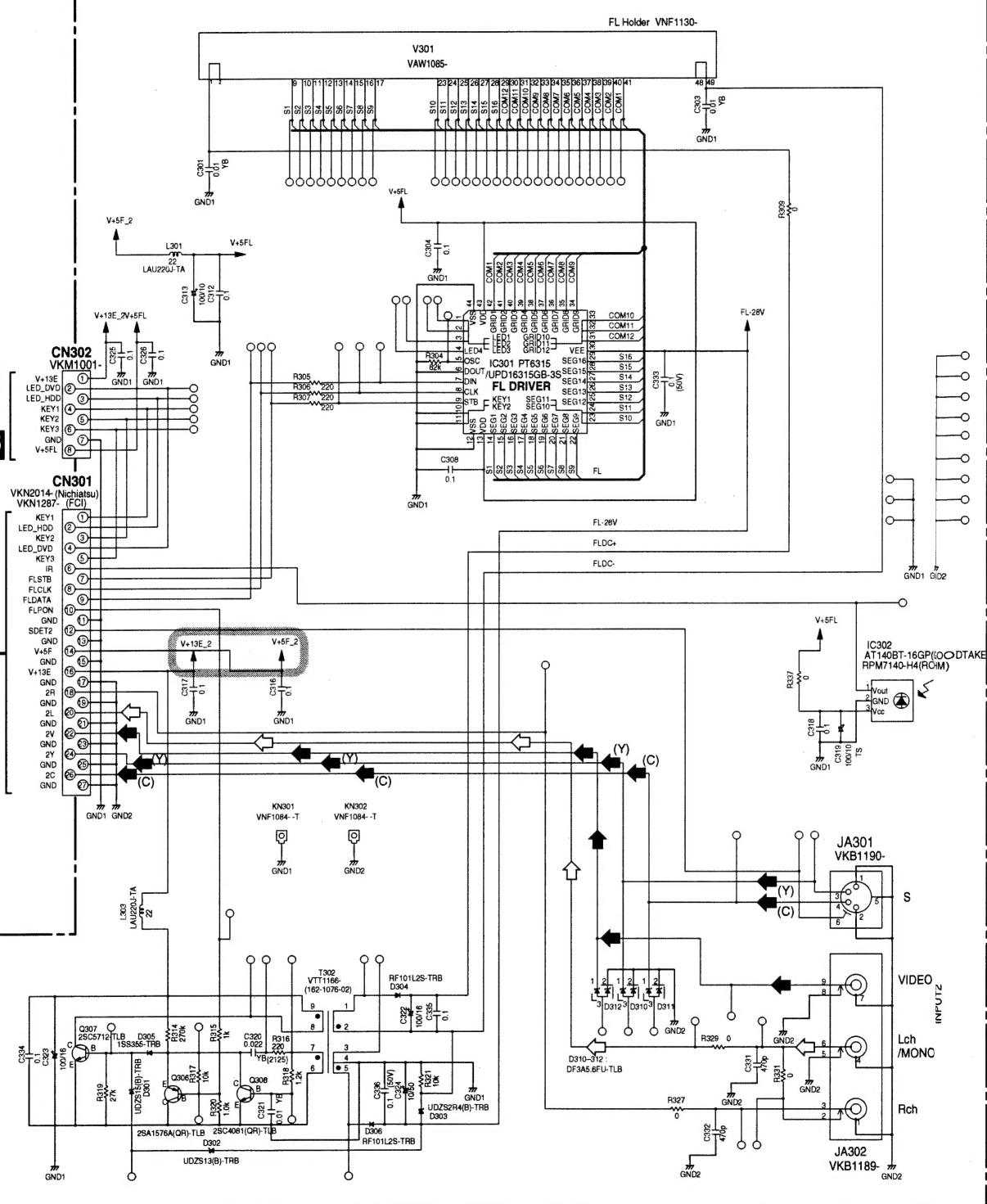
2.2 JACB ASSY(1/2)



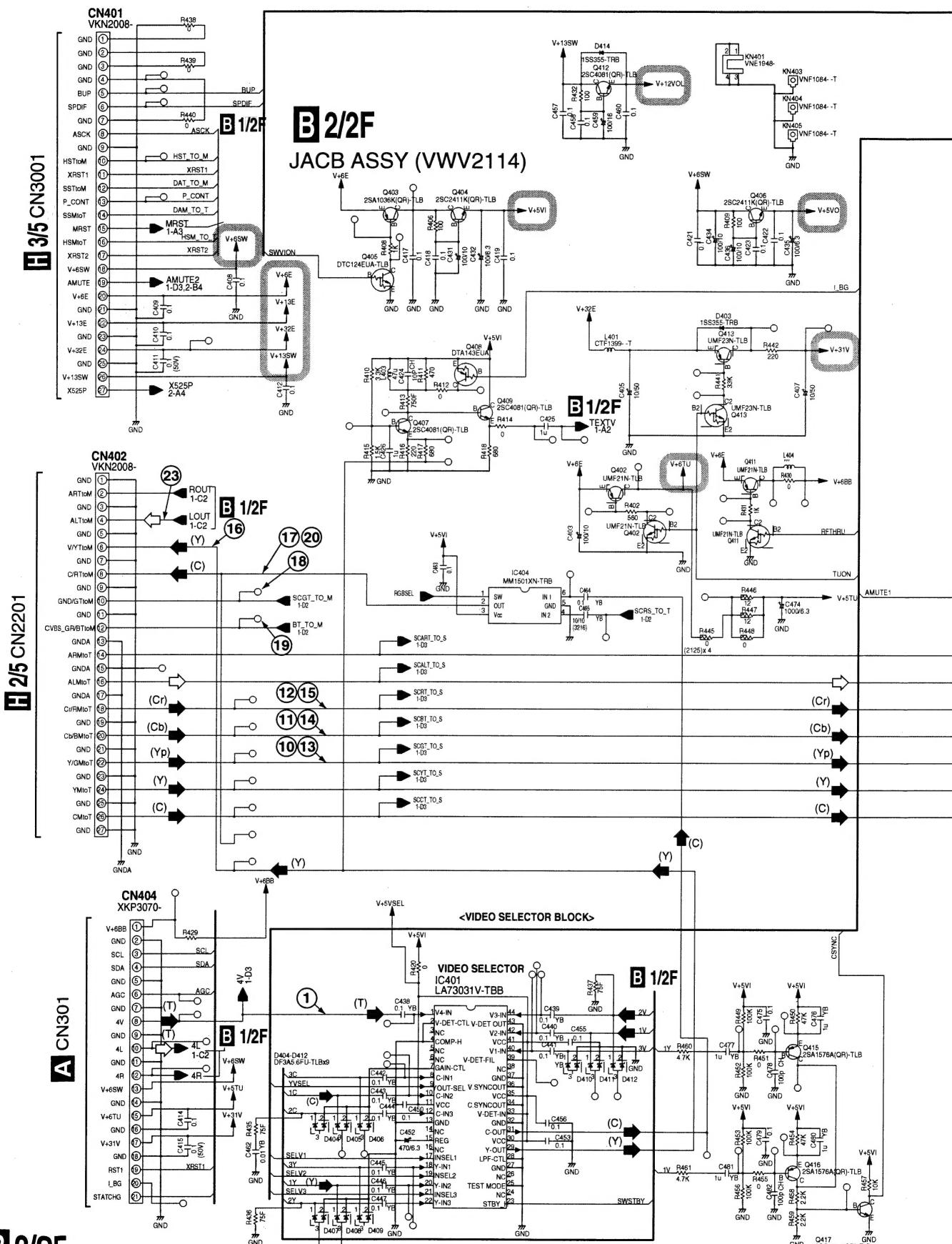
- : Video Signal Route
- : Y Video Signal Route
- : C Video Signal Route
- : AUDIO SIGNAL ROUTE (L ch)
- : AUDIO SIGNAL ROUTE (TUNER L ch)

C FLJB ASSY (VWG2536)

G CN1201



2.3 JACB ASSY(2/2)



- ◆ : Video Signal Route
- (T) ◆ : Video Signal Route (TUNER)
- (Y) ◆ : Y Video Signal Route
- (C) ◆ : C Video Signal Route
- (Cr) ◆ : Cr Video Signal Route

- (Cb) ◆ : Cb Video Signal Route
- (Yp) ◆ : Yp Video Signal Route
- : AUDIO SIGNAL ROUTE (L ch)
- (T) □ : AUDIO SIGNAL ROUTE (TUNER L ch)

- (C) ◆ : (Y)
- (Yp) ◆ : (Yp)
- (Cb) ◆ : (Cb)
- (Cr) ◆ : (Cr)

B 1/2F

<VIDEO DRIVER BLOCK>

IC501
LA73054-TBB

75W DRIVER with LPF

C515 100/10

C509 100/10

C507 0.11YB

C508 0.11YB

C509 0.11YB

C511 100/10

C512 100/10

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C750 100/10

C751 100/10

C752 100/10

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C757 100/10

C758 100/10

C759 100/10

C760 100/10

C761 100/10

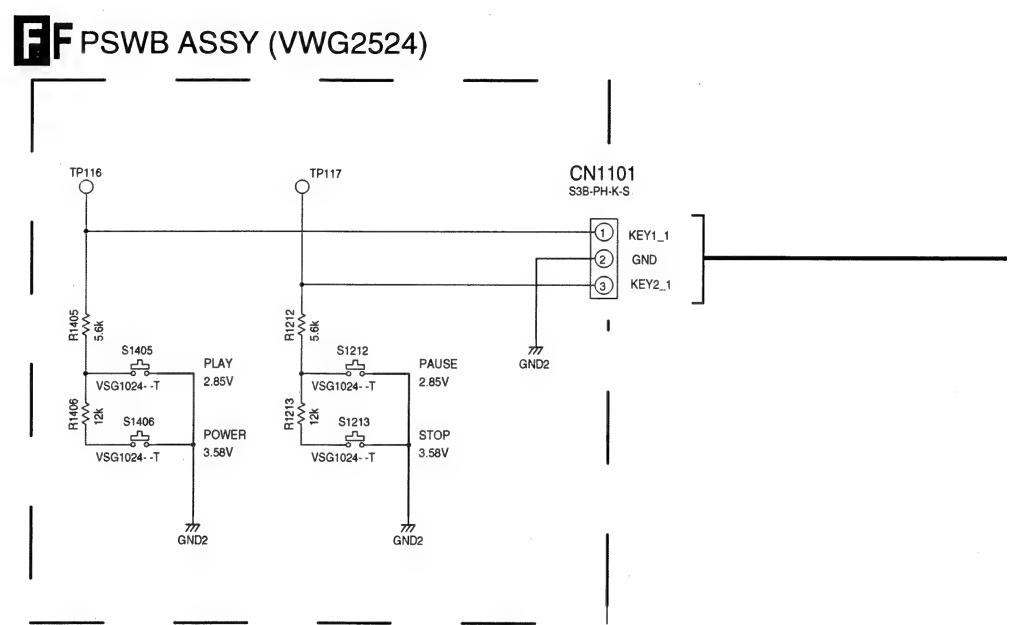
C762 100/10

2.4 PSWB and RSWB ASSYS

A

B

Switches
 S1212:PAUSE
 S1213:STOP
 S1405:PLAY
 S1406:POWER



D

E

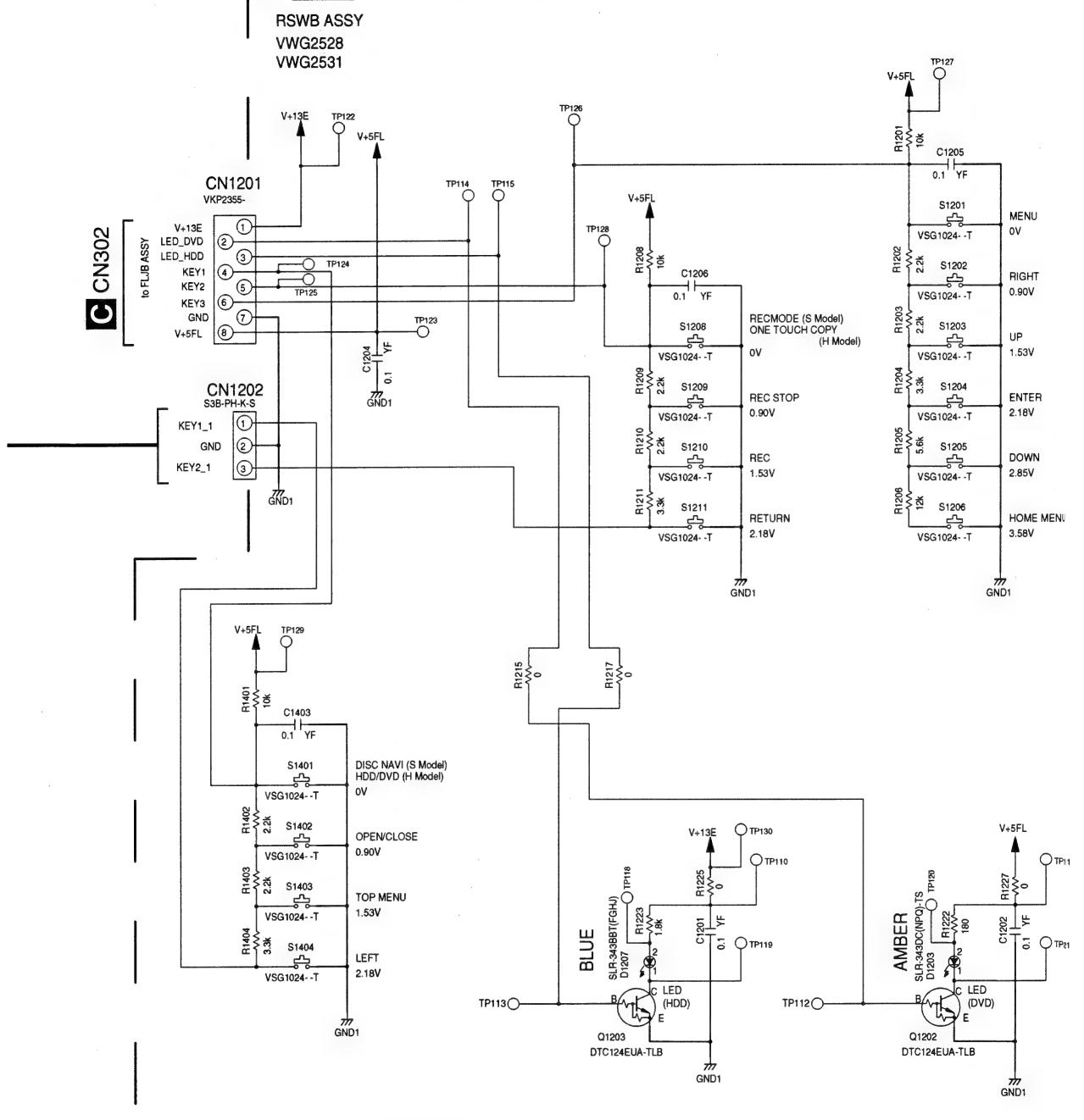
F

BF

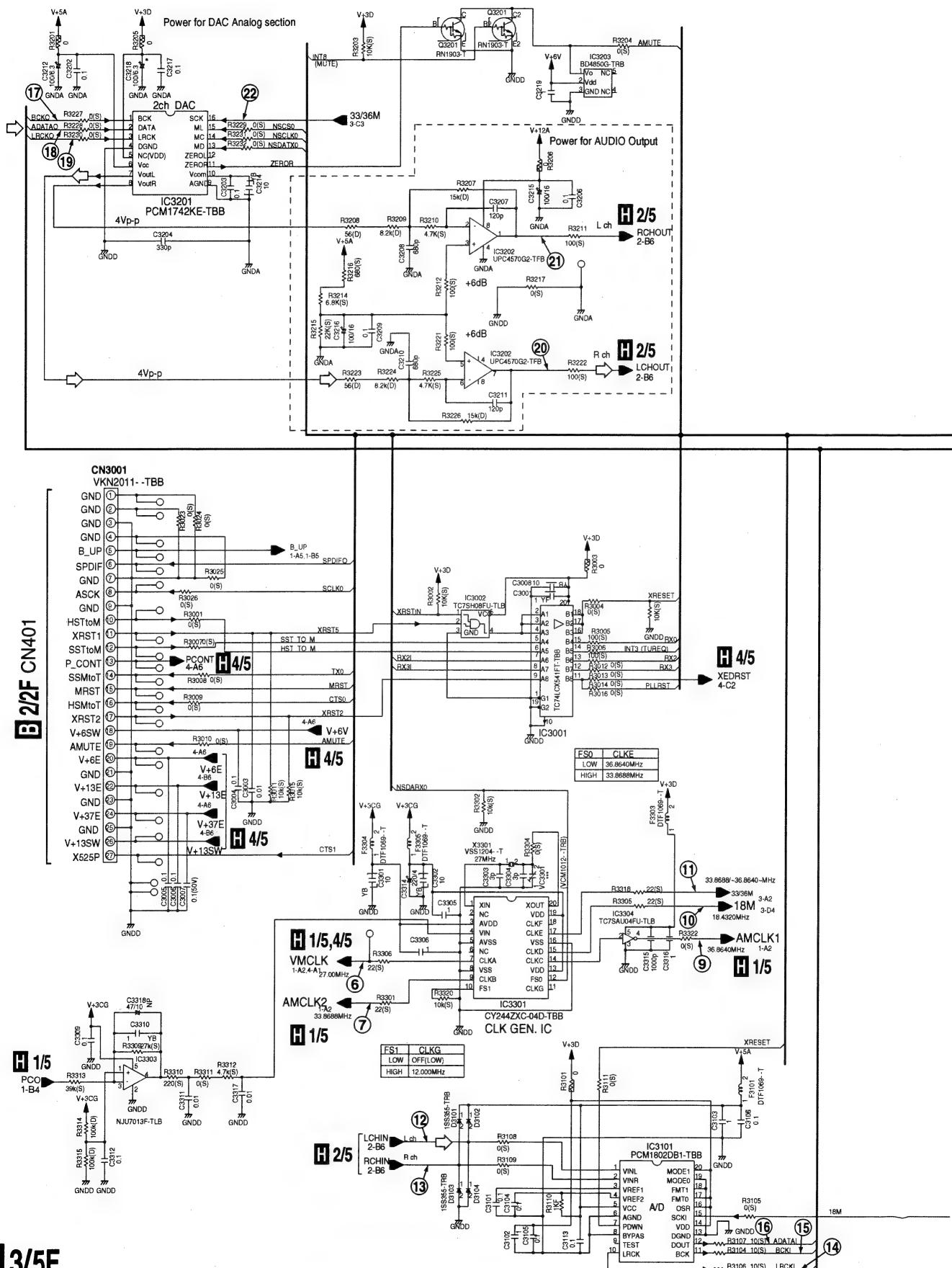
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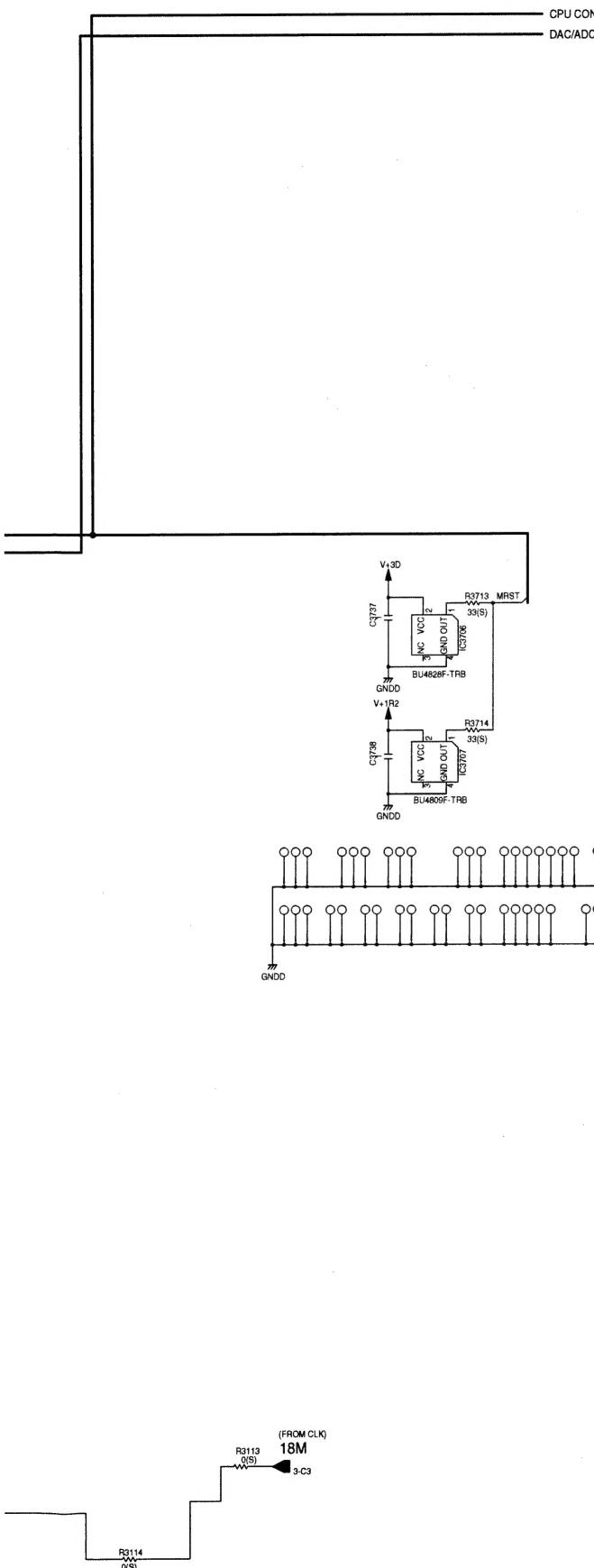
DVR-433-H-S

GF RSWB ASSY (VWG2528)



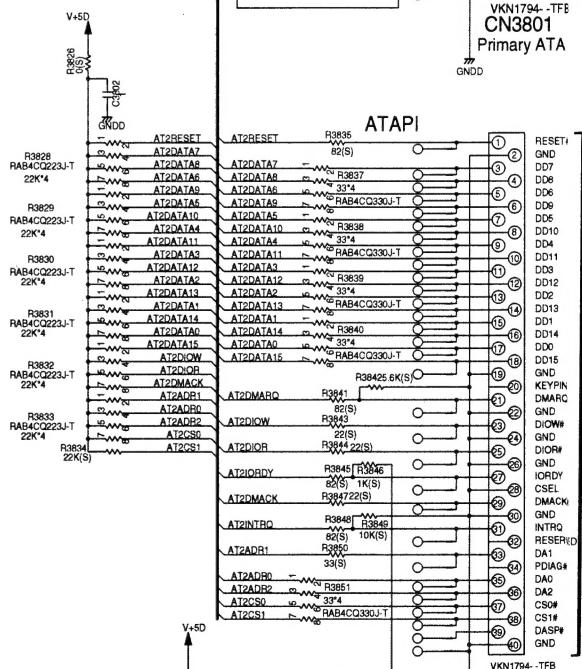
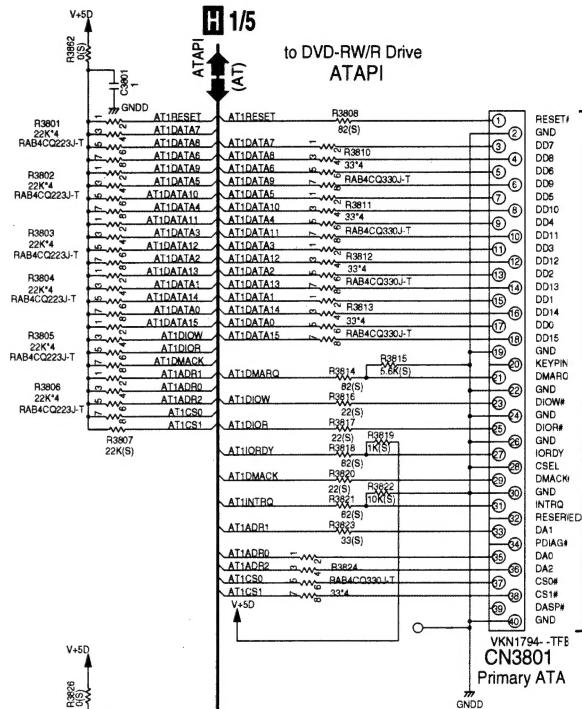
2.5 MAIN ASSY(3/5)





H 3/5F MAIN ASSY (VXX2996)

(AT) →: ATAPI Data Signal Route
→: Audio Signal Route (L ch)



GNDD
Secondary ATA
to HD Drive

H 3/5F

3. PCB CONNECTION DIAGRAM

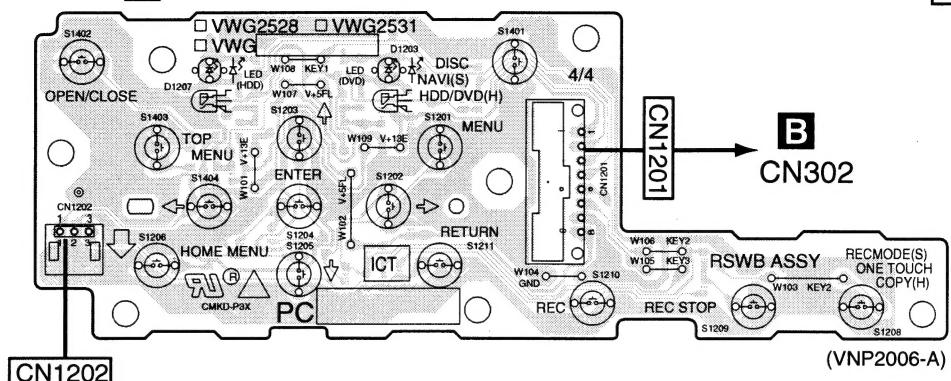
3.1 PSWB and RSWB ASSYS

A

SIDE A

GF RSWB ASSY

SIDE A



B

CN1202

FF PSWB ASSY

C

D

E

F

FF GF

FF GF

4. GENERAL INFORMATION

4.1 MODEL TYPE SETTING

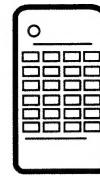
A

[Purposes]

When the MAIN Assy and/or TUJB Assy that are(is) commonly used with another model are(is) replaced, they(it) must recognize the model of this unit.

Items to be set: The model number, destination, and region No. must be set.

[Tool to be used]



Remote control unit for servicing
(GGF1381)

B

[Notes]

- Once the setting has been made, it can never be changed. Be sure to make the setting correctly.
- As this setting resets the Assy(s) in question to the factory-preset status, it is recommended that you obtain the customer's consent beforehand.

C

[Procedures]

① After power on, the following screen is displayed on TV monitor. Press four digits properly (for example "2401") by using the remote control unit for service, according to the screen information.

[Recorder's Model Setting]

Input the number using the remote for Service.

>---

Input No.	Model	**	Destination
[22**	: DVR-530H]	[01 : /WY]
[23**	: DVR-630H]	[02 : /WV]
[24**	: DVR-433H]	[03 : /WY/RE]
			[04 : /WY/GR]
			[05 : /WY/SP]

D

② Disconnect then reconnect the AC power cord of the unit. Be careful not to impart vibration to the unit immediately after the AC power cord is disconnected.

③ Reset the recorder to all its factory settings.
(Make sure that the recorder is on. Press and hold ■ (STOP) key and press ⌂ (STANDBY/ON) key on the front panel.)

The recorder turns off with all settings reset.

④ Press [ESC] then [DISP] keys by using the remote control unit for servicing, and then confirm each Model Name (for example "DVR-433H/WY").

DVR-433H/WY	VERSION : 4.**	
SYSCON	: RELEASE_166	
	Rev : 1.10357.2.43	
TUNERCON	835.000	OK
DRIVE	: DVD-RW DVR-R09R	OK
	1.52	OK
	DLDL000946WL	OK
HDD	: WDC WD800BB-xxJKCx	80
DEVICE	: PRISM2-ES2	
REGION	: 2	
C	: *****	
FLASH	: 64M	

⑤ End

1

2

3

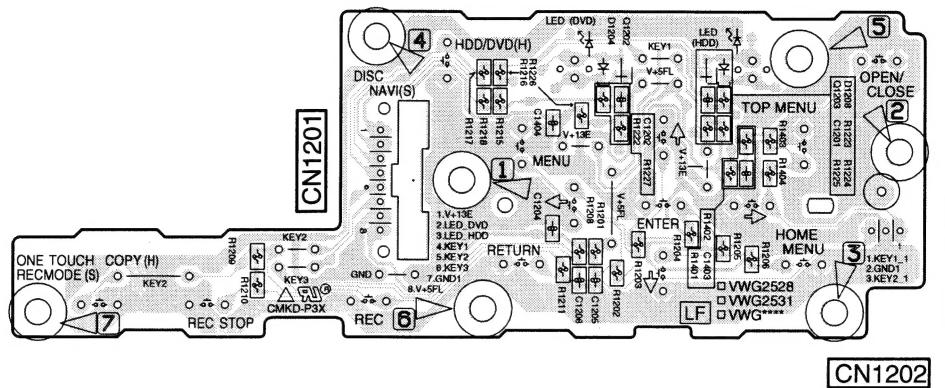
4

SIDE B

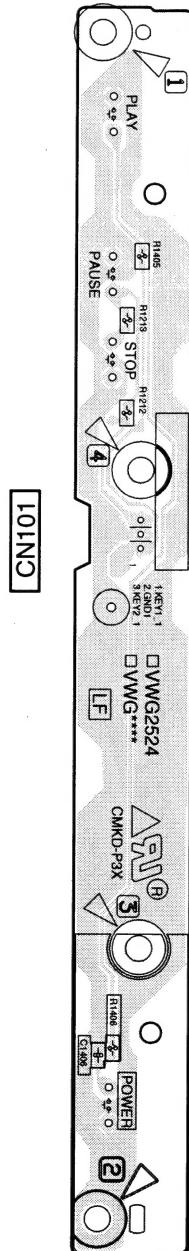
GF RSWB ASSY

SIDE B

4



FF PSWB ASSY



FF GF

(VNP2006-A)

Ff Gf

1

2

3

17